

4K Miniature SuperFisheye™ Lens



Description

The DSL227 lens is a miniature SuperFisheye™ lens designed to provide 180° diagonal field of view on a 1/3.2" sensor with multi-megapixel resolution and a 180° circular fisheye image on a 1/1.7" sensor with 4K resolution. The fast F/2.0 aperture makes the DSL227 ideal for low-light security, surveillance, and consumer imaging applications.

Key Features

- All glass construction to optimize thermal stability
- Low F/# for improved low light performance
- Compact size

Optical Specifications

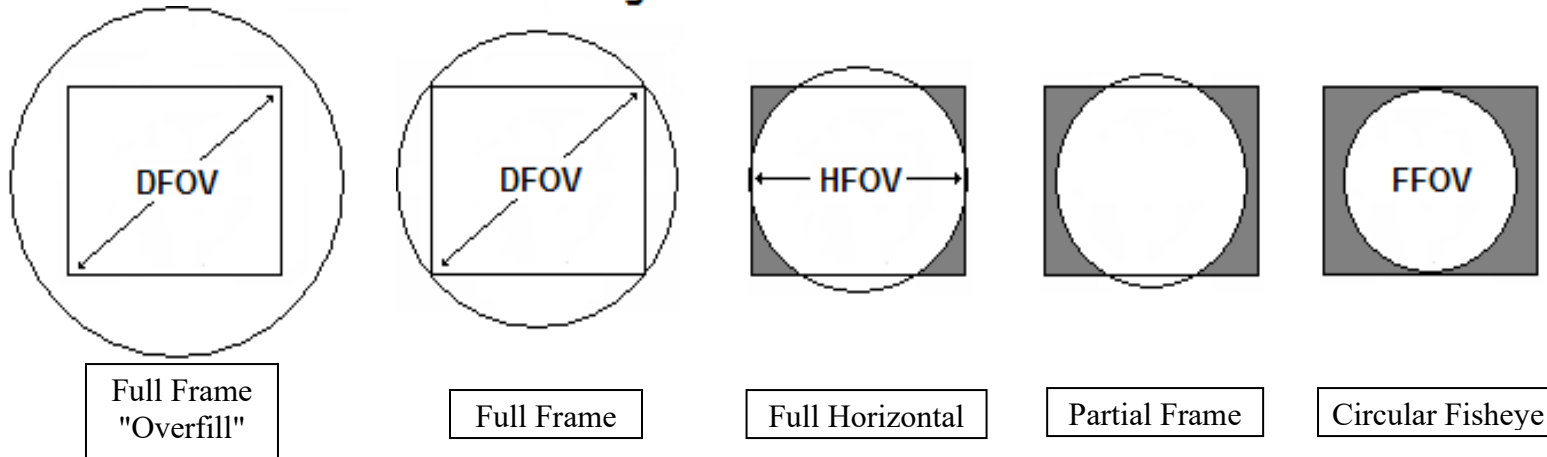
Sunex PN DSL227	
Description	4K Miniature Superfisheye™
Imager Format	Up to 1/1.7"
Nominal Imager Resolution	10MP
Focal Length	1.96mm
Relative Aperture (F/#)	F/2.0
Image Circle	5.6mm
Field of View	180° at 5.6mm image circle
Total Track Length	26.9mm
Distortion	-9% from F- θ
Chief Ray Angle	10.8° at 5.6mm image circle, linear
IR cut-off filter	Optional 650nm IR cut off coating

Applications

- Security and Surveillance
- Drone cameras
- Immersive Imaging

Image circle format using a 4:3 aspect ratio imager:

Image Circle vs. Sensor Format



DSL227 on: 1/3.4" and smaller

~1/3.2"

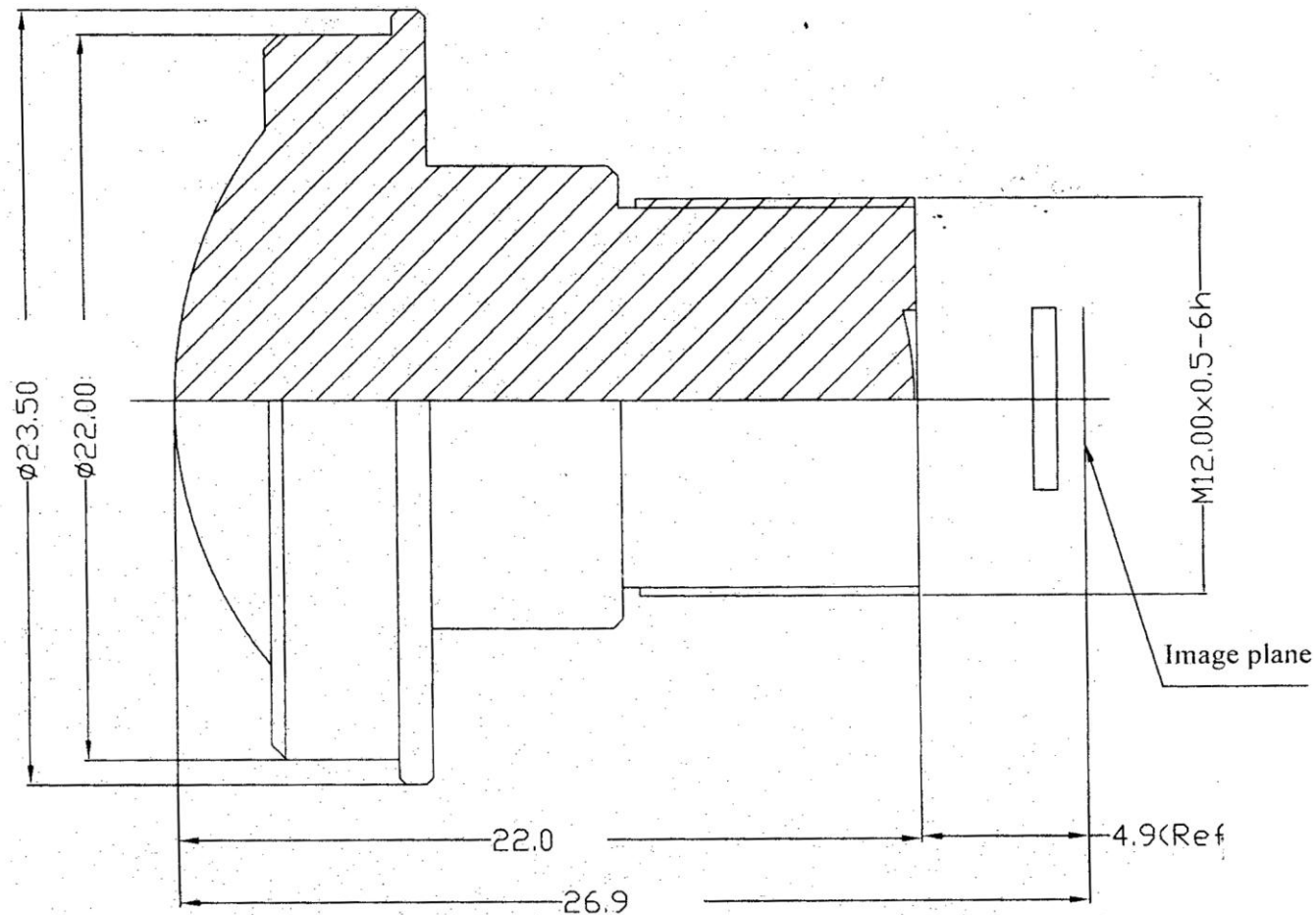
~1/2.5"

~1/2"

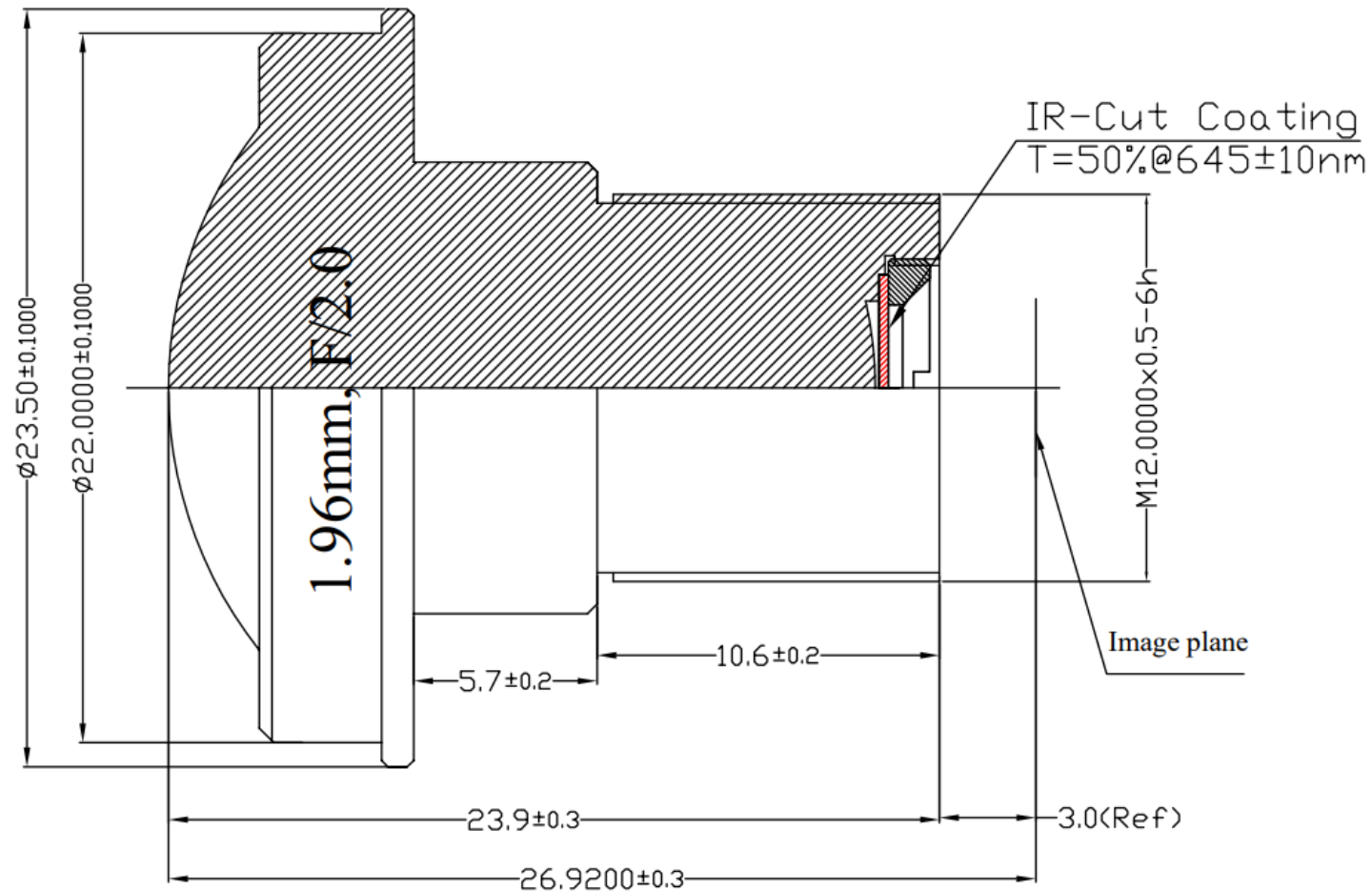
1/1.7" or larger

DSL227A-650-F2.0 and DSL227A-NIR-F2.0 Mechanical Dimensions [mm]:

Note: DSL227A is intended for use with Sunex CMT821, CMT822 mount



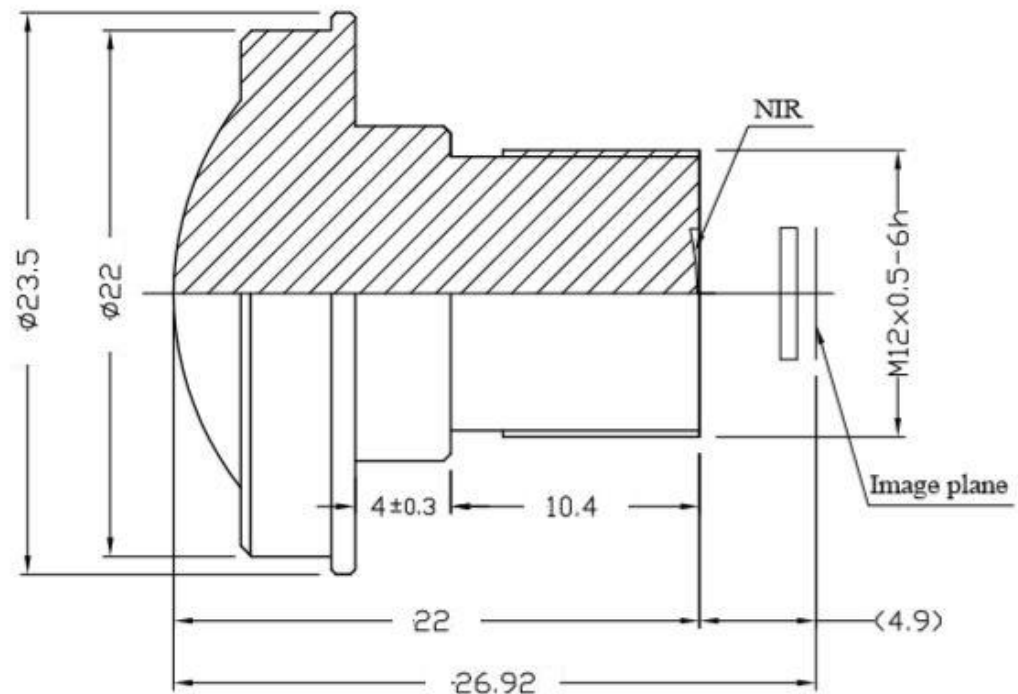
DSL227C-645-F2.8 Mechanical Dimensions [mm]:



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DSL227D-NIR-F2.0 Mechanical Dimensions [mm]:



Note:

1. Effective focal length: 1.96
2. F/#: 2.8
3. Barrel Material: Black anodized AL;